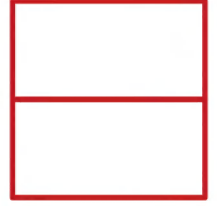


Model (1)

Science

- 1) The two factors which describe the motion of an object are.....
 - a) Speed and time.
 - b) Distance and time.
 - c) Area and time.
 - d) Displacement and speed.
- 2) From the examples of vector physical quantities is.....
 - a) Mass.
 - b) Time.
 - c) Length.
 - d) Displacement.
- 3) From the examples of living organism which reproduce by budding is
 - e) Mushroom
 - f) Yeast
 - g) Star fish
 - h) Amoeba
- 4) If a spherical mirror of radius is 20 cm so its focal length is.....cm.
 - a) 40
 - b) 20
 - c) 10
 - d) 5
- 5) The passing light ray in the optical center of a convex lens will.....
 - a) pass through the focus
 - b) parallel to the principle axis
 - c) not refract
 - d) reflect on itself
- 6) The solar system is located in.....
 - a) The center of galaxy
 - b) the edge of the circular galaxy.
 - c) The nebula
 - d) At one of the arms of the spiral galaxy.

Maths



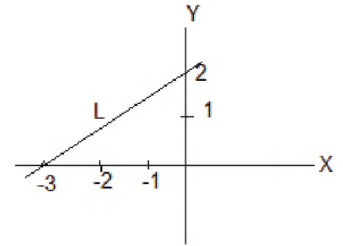
1) If $(4, a) \in$ the function $f: f(x) = x + 1$, then $a = \dots\dots\dots$ (3 , 4 , 5 , 6)

2) If $(x+3, 6)$ located on the y- axis , then $x = \dots\dots\dots$ (0 , 3 , -3 , 6)

3) If Y varies directly as X and $Y=6$ when $X = 3$, then the value of Y at $X = 5$ is $\dots\dots\dots$
 (5 , 8 , 9 , 10)

5) The arithmetic mean of 1,2,3,4 and 5 = $\dots\dots\dots$ (5 , 4 , 3 , 2)

6) In the opposite figure, the slope of the straight line L is $\dots\dots\dots$
 ($\frac{3}{2}$, $-\frac{3}{2}$, $\frac{2}{3}$, $-\frac{2}{3}$)



7) If $\tan 3X = \sqrt{3}$, where X is an acute angle, then $m(\angle X) = \dots\dots\dots^\circ$ (10 , 15 , 20 , 30)

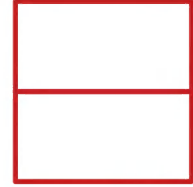
8) If A (5 , 7) and B (1 , -1) ,then the mid-point of \overline{AB} is the point $\dots\dots\dots$
 ((3 , 3) , (2 , 3) , (2 , 4) , (6 , 6))

Model (2)

Science

1) A light ray is incident and passing by the focus of a concave mirror, so.....

- a) It will reflect parallel the principle axis.
- b) Reflected on itself.
- c) Reflected and passing by the center of curvature.
- d) Reflected and passing by the pole of mirror.



2) From the examples of scalar physical quantities

- a) Mass.
- b) Acceleration.
- c) Force.
- d) Displacement.

3) A convex lens of focal length of 20 cm, so its radius is.....

- a) 40 cm.
- b) 20 cm.
- c) 10 cm.
- d) 5 cm.

4) From the measuring units of speed.....

- a) m/sec.
- b) m/sec².
- c) m.
- d) sec.

5) The universe is formed from the combination of molecules of

- a) Oxygen and Nitrogen.
- b) Hydrogen and Helium.
- c) Hydrogen and Oxygen.
- d) Nitrogen and Helium.

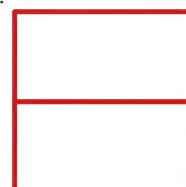
6) The offspring produced from the asexual reproduction gains traits which the original organism.

- a) are different from.
- b) are identical to.
- c) have a big difference from.
- d) Have a small difference from.



Maths

- 1) The function $f : f(x) = x^4 - 2x^3 + 7$ is a polynomial function ofdegree
(first - second - third – fourth)
- 2) If Y varies directly as X ,and $X=1$ when $Y = 4$ then the constant of variation =
(1 , -1 , 4 , -4)
- 3) If $\frac{a}{3} = \frac{b}{4}$ then $4a - 3b + 5 = \dots\dots\dots$
(4 , 3 , 5 , 7)
- 4) If the point $(5, 3-k)$ located on X- axis , then $k = \dots\dots\dots$
(0 , 5 , -3 , 3)
- 5) The Range of the values 23,22,15,18 and 17 =
(8 , 18 , 19 , 23)
- 6) The slope of the perpendicular straight line to the straight line passes through the two points $(-1,2)$ and $(0,5) = \dots\dots\dots$
(3 , -3 , $\frac{2}{3}$, $\frac{1}{3}$)
- 7) The straight line whose equation is : $2x + 5y - 10 = 0$ intersect from x-axis a part of lengthunit length
(2 , 5 , $\frac{5}{2}$, $\frac{2}{5}$)
- 8) If $\sin X = \frac{1}{2}$,where X is an acute angle , then $m(\angle X) = \dots\dots\dots^\circ$
(90 , 60 , 45 , 30)



Model (3)

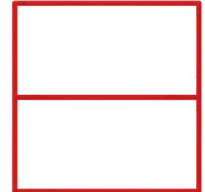
Science

- 1) The ability of some living organisms to regenerate the missing parts is called....
 a) Regeneration.
 b) Budding.
 c) Binary fission.
 d) Vegetative reproduction.
- 2) A gaseous sphere which forms the planets of the solar systems.....
 a) Galaxy.
 b) Nebula.
 c) The big bang.
 d) The universe.
- 3) A light ray falls on a plane mirror with an angle of 30° so it will reflect with an angle of
 a) 30°
 b) 60°
 c) 90°
 d) 180°
- 4) A vision defect results from the shortness of eye ball diameter.....
 a) Short sightedness
 b) Cataract
 c) glaucoma
 d) Long sightness
- 5) If a body moves from rest regularly till its velocity reaches 10m/s .After 2 seconds from the beginning of the movement so the change in its velocity during 2 seconds equals..... m/s^2
 a) Zero
 b) 5
 c) 10
 d) 20
- 6) The total distance that a moving object covers divided by the total time taken to cover this distance is.....
 a) The final speed
 b) displacement.
 c) the average speed.
 d) the relative speed.



Maths

- 1) If $\frac{x}{y} = \frac{z}{l} = \frac{2}{3}$, then $\frac{x+2z}{y+2l} = \dots\dots\dots$ $(\frac{2}{3}, \frac{3}{2}, \frac{1}{3}, \frac{9}{4})$
- 2) If $n(X) = 5$ and $n(X \times Y) = 10$ then $n(Y) = \dots\dots\dots$ $(4, 3, 2, 1)$
- 3) The simplest scale for measuring deviation is(Mean, Median, Range, Mode)
- 4) The fourth proportion of the values 4, 12 and 16 is(24, ± 24 , 48, ± 48)
- 5) If $m(\angle A) = 75^\circ$ and $\sin B = \cos A$, where B is an acute angle, then $m(\angle B) = \dots\dots\dots^\circ$

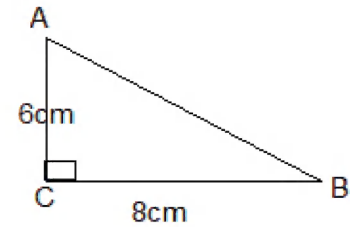


(45, 75, 15, 105)

- 6) If the triangle ABC is right angled at angle C

$\cos A \cos B = \dots\dots\dots$

(0, 1, 6, 0.48)



- 7) The product of the slopes of two perpendicular straight lines =

(1, -1, ± 1 , 0)

- 8) If A (5, 7) and B (1, -1), then the midpoint of \overline{AB} is the point

((3, 2), (3, 3), (2, 3), (4, 3))